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TCS No. 2025/65
IB No. 59/65
25 February 1965
Copy No. [redacted]

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MEMORANDUM FOR: Chief, Resources Division, ORR

ATTENTION: [redacted]

THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS

FROM : Chief, Photographic Intelligence Division, CIA

SUBJECT : Ryazan Petroleum Refinery, USSR

REFERENCES : (1) OSI Requirement No. C-RR4-81,822
(2) CIA/PID Project No. 30287.

1. This memorandum is forwarded in answer to the above mentioned requirement which requested an analysis and a comparative study of the petroleum refinery located near Ryazan, USSR.

2. Information concerning this refinery as requested is as follows:

a. Location - The refinery is located approximately 2 nm south of the city of Ryazan and 7 nm southeast of the Ryazan Dyagilevo Airfield, adjacent to the Michurinsk-Moscow Rail line. The geographic coordinates of the refinery are 54 40N - 39 45E (See Figure 1 & 2).

b. Areal Extent - The refinery area measures approximately 8,100 by 8,300 feet. The measurements do not include the heat and power plant nor the possible petrochemical plant adjacent to the refinery. The orientation of the refinery is north northeast by south southwest.

c. Construction Status - From the overall appearance of the refinery, and judging from the rate of change that has taken place between [redacted] it appears to have been in continuous expansion. Although the plant appeared to be active and operating, nevertheless, construction on additional units was active throughout the [redacted] period. There is still sufficient room for expansion and it appears as if additional units will be constructed at this refinery.

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d. Level of Activity - The refinery, and associated facilities, appeared to be in operation on all photography used in this study. The heat and power plant, flare tower and several refining and processing units showed evidence of some level of operation.

e. Photography Used - All available photography covering the plant area was utilized in this study. From this material, three satellite missions were selected on the basis of having good quality photography. These are [redacted]

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[redacted] respectively (See Figures 3-5). The attached graphics have been arranged in a chronological order. Figure 5 contains all of the pertinent data, including an overlay with annotations. Detail concerning the changes that have occurred are given in chronological order in the following paragraphs.

3. The overlay accompanying Figure 5 outlines the refinery area and the various sections within the refinery. The following legend is keyed to the annotated overlay:

- (1) Flare tower
- (2) Fractionation units - with associated facilities and probable desalting units
- (3) Cracking units
- (4) Probable alkylation unit with associated facilities
- (5) Probable lubricating refining area
- (6) Administration area
- (7) Probable distillation units with associated facilities
- (8) Probable vapor recovery units
- (9) Cooling towers and ponds
- (10) Machine shops and warehouses
- (11) Unidentified processing unit - containing a small furnace and possibly four distillation type towers, a pipeline from the main refining area serves this unit and the possible petrochemical plant (Annotation 16)
- (12) Tank farm - containing cylindrical storage tanks and square semiburied tanks.
- (13) Heat and power plant
- (14) Railcar loading and unloading facilities
- (15) Water treating ponds
- (16) Possible petrochemical plant
- (17) Suspect synthetic fiber plant

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4. The refinery appeared in [REDACTED] with several of the refinery units completed and in operation (See Figure 3). A large number of the other units were in early stages of construction. Construction on the possible petrochemical plant had not begun. The photography of [REDACTED] (See Figure 5) shows these refining units as having been completed, however there is still sufficient space for many more units. New ground scars and structures have appeared in the vicinity of the flare tower.

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5. All measurements have been made by the CIA/PID/IB project analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data compiled by the Technical Intelligence Division, NPIC.

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6. The photo analyst assigned to this requirement was [REDACTED] who may be contacted on extension 2546 should any question arise concerning this memorandum. This memorandum and attachments complete this requirement.

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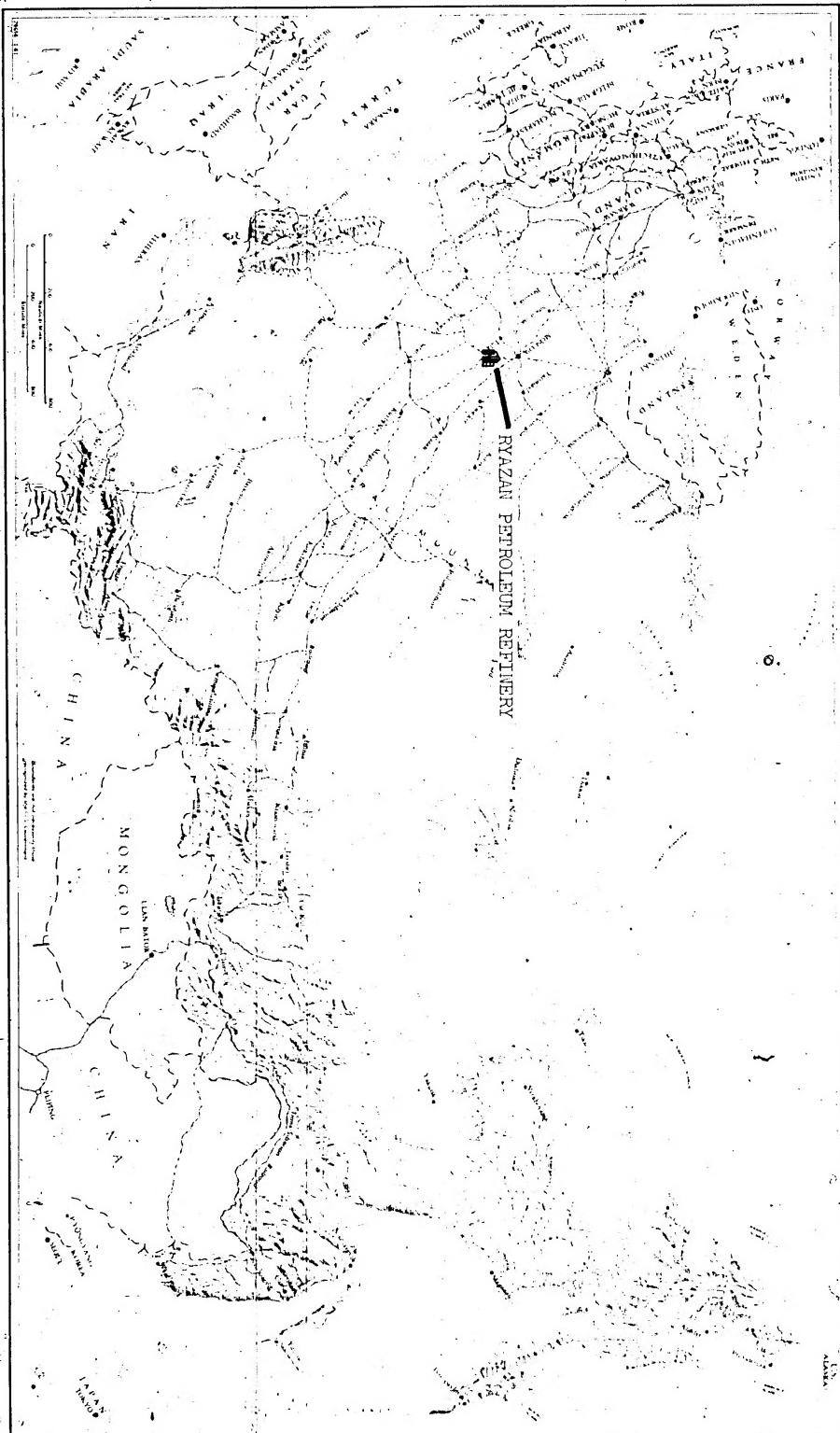


ENCLOSURES:

2 Annotated Maps (CIA/PID/IB-P-73/65 & P-74/65)

3 Annotated Photos (CIA/PID/IB-P-75/65 thru P-77/65) w/overlay

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